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Imagery Analysis Monthly Review

November 1979

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IS MR 79-008J

December 1979

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National Foreign Assessment Center

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Imagery Analysis Monthly Review

November 1979

The information and judgments presented in this publication were derived principally from analysis of imagery. Although information from other sources of intelligence may be included for background, this publication does not reflect an all-source assessment and has not been formally coordinated within CIA. (U)

Comments and queries on the contents of this publication are welcomed. They should be directed to the analyst whose name and green line extension appear after each article. (U)

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IS MR 70.0081

December 1979

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Production Rate of Soviet SS-20 IRBM Sliding-Roof Building Components Increased

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The discovery of previously unidentified SS-20 facilities and a reanalysis of 1979 imagery indicate that the Soviets have increased the production rate of SS-20 IRBM sliding-roof building (SRB) components for the second time since January 1976. The new production rate appears to be one set of SRB components every four working days compared to a previous rate of one every five working days. The Soviets most likely increased the production rate in January 1979, which means a total of 69 SRBs could be produced during 1979 instead of the 54 that would have been produced at the previous rate. If this production rate continues, a total of 300 buildings--the estimated force requirement--could be produced by July 1981, three months earlier than previously projected. The SRB is a specially configured, prefabricated garage that houses the SS-20 IRBM on a transporter-erector-launcher (TEL). It is designed so that the roof can be opened to allow the missile to be erected and launched.

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The increased SRB production rate became evident when four remote battalion-size SS-20 facilities, each with three SRBs, were identified-one at Drovyanaya and three near Rechitsa. These additional SRBs could not be accounted for if the previous SRB component production rate was still valid. A review of 1979 imagery of the Bryansk Guided Missile Support Equipment Plant II, the only producer of SRBs, revealed that components for two SRBs were produced

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Assuming a constant rate of production the apparent production rate is one SRB every four working days. Considering the timing of the construction of the four remote facilities—early 1978 at Drovyanaya and early 1979 for those at Reschitsa—and other SS-20 base construction, it appears that the Soviets increased the SRB component production rate in January 1979.

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Sanitized Copy Approved for Release 2010/05/24: CIA-RDP80T00556A000100640001-5 **Top Secret** RUFF **Gatling Guns for Older Soviet Navy Cruisers** 25X1 The Soviet Navy is installing the ADMG-630 gatling gun system on one Kresta-I-class and two Kynda-class guided missile cruisers (CGs) which are undergoing overhaul. The installation of gatling guns on these ships is a continuation of Soviet efforts to equip CGs built during the 1960s with this gun system during overhaul. The gatling gun systems are for close-in air defense and reflect the Soviet concern for the threat posed by low-flying aircraft and surface-skimming cruise missiles, as well as the high value they place on these ships. 25X1 The Northern Fleet-based Kresta-I-class CG Vitse-Admiral Drozd was the first ship of this type to be installed with the ADMG-630 gatling gun system during its three-year overhaul which was completed in 1975. The next CGs to be equipped with this system were two Kynda-class, the Groznny from the Black Sea Fleet and the Varyag from the Pacific Fleet, which were fitted with gatling gun mounting positions in April and June 1979, respectively. Both ships have been undergoing long-term overhauls since the mid-1970s. The Northern Fleet Kresta-I-class CG Sevastopol, which began a long-term overhaul at Rosta in June 1974, is apparently also receiving the gatling gun system. Although the ship's superstructure is heavily covered with scaffolding, the basic structural supports for the gatling gun system appeared to be in place by August 1979. 25X1 The Soviets have four additional CGs which have not yet received the ADMG-630 system. These four, two Kresta-I-class and two Kynda-class CGs, will probably receive the system during their next overhaul. 25X1 25X1 25X1 Top Secret 2 25X1

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Two Support Elements for Soviet SS-20 Mobile IRBM Regiments Identified

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Vehicles of the security force of the SS-20 mobile IRBM regiments and an air separation unit associated with these regiments have been identified on imagery. Each regiment's security force apparently has 16 armored vehicles, 10 BTR-60s and six BRDMs, which are capable of carrying over 150 troops. These vehicles were seen on June 1979 imagery of Postavy Mobile IRBM Base 1 and on October 1979 imagery of Yurya Mobile IRBM Base 1. The security forces could provide ground and limited air defense for the launch units while in convoy, 25X1 and pertorm reconnaissance for 25X1 the mobile launch units. They may also be used to augment base security when the launch units are in garrison. 25X1 A two-vehicle mobile air separation unit, the AKDS-30, was first 25X1 25X1 The AKDS-30, which is designed to produce liquid and gaseous nitrogen and oxygen, was originally used to produce gaseous nitrogen for pressurization of the liquid-propellant tanks of SS-5 missiles. The SS-20, however, is a solid-propellant missile, but gaseous nitrogen may be used to provide an inert atmosphere in the guidance and control section and in the missile canister after the warhead is mated to the missile. 25X1 25X1 25X1

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Develop	ments i	n the	Soviet
Electric	Power	Indus	stry

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Analysis of imagery shows that the Soviet electric power industry is undergoing a major expansion and is closing the technology gap with the more advanced Western nations in very large thermal turbine-generator units. Currently, the Soviets are developing two immense fuel and energy complexes (TEKs) specifically for electric power generation-one in the Ekibastuz Coal Field in Kazakhstan and the other near Berezovskoye in the Kansk-Achinsk Coal Basic in Western Siberia. Completion of these complexes, which is scheduled for the 1990s, will increase Soviet thermal power generating capacity by approximately 30 percent. In addition, at Kostroma the Soviets have nearly completed installing the first Soviet-designed turbine-generator of comparable size to the largest turbine-generators already in use in the US and Europe.

25X1

Coal from the Ekibastuz and Kansk-Achinsk fields is reportedly not suited for use as coking coal and is not easily transportable because of its high moisture content and tendency toward spontaneous combustion. As a result, the Soviets have announced plans to develop these coal basins by constructing a total of 13 extremely large on-site thermal power plants-five at Ekibastuz and eight at Kansk-Achinsk. They intend to send large amounts of electricity through extra-high-voltage transmission lines to population and industrial centers in the western Soviet Union, a distance of 2,500 to 3,500 kilometers.

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Five major thermal power plants with a combined capacity of 20,000 megawatts (MWs) are planned for the fuel and energy complex at the Ekibastuz Coal Field. Each plant will contain eight 500-MW generating units. Analysis of August 1979 imagery reveals that the first plant may place two of its 500-MW generating units into operation during the first half of 1980. The remaining six 500-MW units are also under construction and, based on the present rate of construction, three will become operational by early 1982 and three by early 1984. No recent imagery was available of the proposed site of the second power plant to confirm recent Soviet radio reports that construction had begun.

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At the Kansk-Achinsk fuel and energy complex (KATEK), eight large thermal power plants with a combined capacity of 51,200 MW are planned. Each plant will contain eight 800-MW generating units. Excavating activity for the first of these plants was under way in August 1979 near Berezovskoye. When complete, it will be the largest power plant in the world. The earliest projected completion date reported by the Soviets for this power plant in 1985, which should allow the Soviets sufficient time to construct the 1,150-kilovolt (KV) alternating current (AC) transmission line needed to transmit the electricity produced at Berezovskoye some 2,500 kilometers to the Urals. Although the Soviets indicate that construction of the 1,150-KV AC line--the first of such magnitude in the world--has already started, a 100-nautical-mile

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search centered on Itat, near Berezovskoye, showed no evidence of its construction.

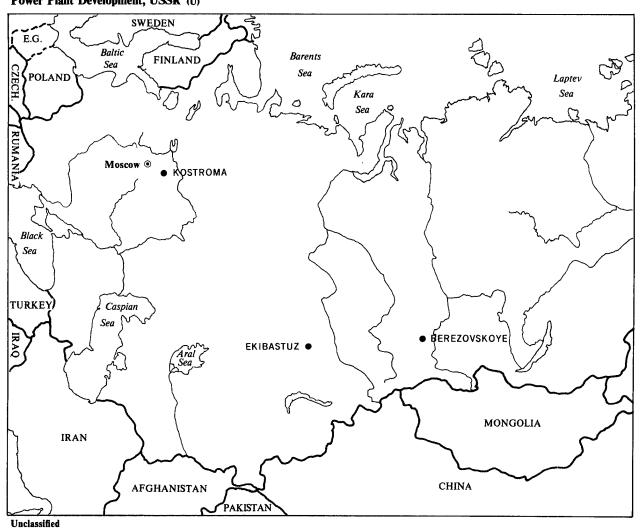
25X1

The 1,200-MW turbine-generator unit now being installed at Kostroma will be the largest turbine-generator unit in the Soviet Union. It is likely to go into operation before July 1980. The United States has been operating units which are rated at 1,300 MW since 1974. Presently, the largest turbine-generator unit generating electricity within the Soviet Union is rated at 800 MW.

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Locations of Major Electric Power Plant Development, USSR (U)



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Chinese May Have Antitank Guided Missiles

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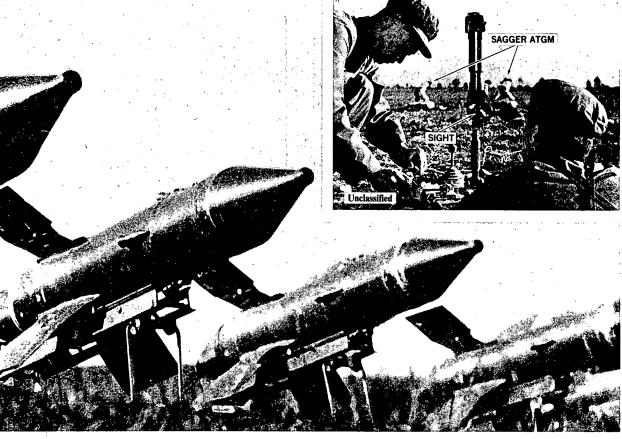
Chinese military personnel using antitank guided missiles (ATGMs) were recently displayed on Chinese television and magazine photography. The ATGMs appeared to be SAGGERs, a Soviet-designed, wire-guided ATGM with a range of 300 to 3,000 meters. If, in fact, these weapons have been operationally deployed, they would substantially improve China's antiarmor capability. However, we cannot determine if they have been deployed because the man-packed version of the SAGGER, the only version displayed in the Chinese media,

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In early 1979 a Canton television station aired a picture of an ATGM resembling a SAGGER which the Chinese claim they used during the conflict with Vietnam. In September 1979, photographs appearing in a Chinese military publication, the <u>Peoples Liberation Army Pictorial</u>, showed Chinese soldiers aiming and firing ATGMs that appear identical to

Sagger ATGMs Appearing in the Peoples Liberation Army Pictorial, September 1979

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the SAGGER.	25 X 1
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China's interest in the ATGMs is almost certainly prompted by concern over the Soviet forces which enjoy a quantitative as well as a qualitative advantage in both tanks and armored personnel carriers. To help offset Soviet advantages in armor, the Chinese in recent years apparently have developed at least two new domestic antitank weapons—a hand-held antitank rocket and a truck-mounted rocket launcher, similar	_
to the BM-13, that reportedly is designed to disperse antitank mines in the path of an enemy armored column. As with the ATGM, it cannot be determined if these weapons have been field deployed. In addition, the Chinese have expressed interest in the French "HOT" and "MILAN" ATGMs, although no purchase contract for these missiles has been concluded.	
a remedy. The parentage contract for these invisives has been contract.	25 X 1
The US Intelligence Community does not credit North Korea with the SAGGER ATGM.	25X1
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